

IN THE CLAIMS

Please amend the claims as follows, substituting any amended claim(s) for the corresponding pending claim(s):

1. 1. (currently amended) A device for processing content data, the device comprises:
 2. data processing circuitry operably coupled to process data ~~received~~ retrieved from an external content display device, the retrieved data including at least one of digitized audio, digitized video, and incoming remote control data, wherein the data processing circuitry produces presentation information from the ~~received data~~ retrieved data, the data processing circuitry includes:
 6. parsing module operably coupled to receive the retrieved data and separate the retrieved data into the incoming remote control data and the digitized audio;
 7. remote control circuitry for process the incoming remote control data to produce content presentation information, wherein the incoming remote control circuitry provides the content presentation information to the content processing module, and wherein the content processing module processes the content data based on the content presentation information; and
 13. signal processing module operably coupled to process the digitized audio, wherein the digitized audio is representative of audio signals received via a microphone of the external content display device;
 14. content processing module operably coupled to process content data produce content data based on the presentation information for presentation on the external content display device; and
 18. transceiving module operably coupled to the data processing circuitry and the content processing module, wherein the transceiving module separates modulated data from the content data and retrieves the received data produced retrieved data from the modulated data of the external content display device produced by the external content display device, and wherein the transceiving module introduces the content data into a channel coupling the device to the external content display device.
2. 2. (original) The device of claim 1, wherein the content data comprises at least one of: audio data, video data, text data, and multimedia data.
3. 3. (cancelled)

1 4. (currently amended) The ~~device of claim 3~~ device of claim 1, wherein the ~~remote control data~~
2 incoming remote control data comprises at least one of: volume adjust data, stop data, play data, pause
3 data, rewind data, fast forward data, next track data, channel up/down data, bass boost data, record data,
4 intensity data, contrast data, security access data, and telephone access code data.

5. (cancelled)

1 6. (currently amended) The device of claim 1, wherein the transeceiving module comprises:
2 high pass filter to separate the content data from the modulated data;
3 gain module operably coupled to provide gain to the modulated data to produce gained modulated
4 data; and
5 data extraction circuit operably coupled to ~~retrieve the~~ provide the retrieved data from the gain
6 modulated data.

1 7. (currently amended) The device of claim 6, wherein the data extraction circuit comprises:
2 demodulator operably coupled to receive the gain modulated data and to produce therefrom
3 demodulated data;
4 quantizer operably coupled to receive the demodulated data and to produce therefrom quantized
5 data; and
6 digital filter operably coupled to receive the quantized data and produce therefrom ~~the data the~~ the
7 retrieved data.

1 8. (currently amended) The device of claim 6, wherein the data extraction circuit comprises:
2 clock recovery circuit operably coupled to generate a clock signal from the gain modulated data;
3 a correlator operably coupled to receive the clock signal, wherein the correlator detect patterns of
4 the data contained within the modulated data to produce correlated data; and
5 phase comparator operably coupled to receive the correlated data and to produce ~~therefrom the~~ the
6 data therefrom the retrieved data.

1 9. (original) The device of claim 1, wherein the data processing circuitry further comprises:
2 display information module operably coupled to provide outgoing display data to the transeceiving
3 module.

1 10. (currently amended) The device of claim 9, wherein the transceiving module further comprises:

2 data modulator operably coupled to modulate the outgoing display data to produce outgoing

3 modulated display data modulated outgoing display data; and

4 combining circuit combining module operably coupled to combine the content data and the

5 modulated display data to produce transmit data that is provided to the external content display device.

1 11. (currently amended) The device of claim 10, wherein the data modulator comprises:

2 pseudo random code generator operably coupled to produce a random code; and

3 modulator operably coupled to receive the random code and the outgoing display data to produce

4 the outgoing modulated display data.

1 12. (currently amended) The device of claim 10, wherein the combining circuit combining module

2 comprises:

3 high pass filter operably coupled to the channel, wherein the high pass filter filters the modulated

4 display data to produce filtered data, wherein the filtered data is provided on the channel; and

5 high frequency isolation module operably coupled to the channel, wherein the high frequency

6 isolation module substantially attenuates the filtered data and passes the content data substantially

7 unintended unattenuated such that the content data is isolated from the modulated display data.

1 13. (currently amended) The device of claim 1 further comprises:

2 an external content display device detection module operably coupled to detect capabilities of the

3 external content display device in preparing the data the retrieved data.

Claims 14-32. - (Cancelled)

1 33. (Currently Amended) A device for processing content data, the device comprises:
2 a processing module; and
3 memory operably coupled to the processing module, wherein the memory includes operational
4 instructions that cause the processing module to:
5 receive modulated data via a channel coupled to an external content display device;
6 introduce the content data into the channel coupling the device to the external content
7 display device;
8 separate the modulated data from the content data by:
9 high pass filtering the channel to separate the content data from the modulated
10 data;
11 providing gain to the modulated data to produce gained modulated data; and
12 extracting the data from the modulated data by:
13 demodulating the gain modulated data to produce demodulated data;
14 quantizing the demodulated data to produce quantized data; and
15 digital filtering the quantized data to produce the data;
16 retrieve data from the modulated data;
17 process the data produce the retrieved data to produce processed data to produce
18 presentation information; and
19 process content data for presentation on the external content display device based on the
20 presentation information.

1 34. (currently amended) The device of claim 33, wherein the data the retrieved data includes at least
2 one of: at least one of digitized audio, digitized video, and incoming remote control data, wherein the
3 memory further comprises operational instructions that cause the processing module to:
4 parse the data into the remote control data the retrieved data into the incoming remote control
5 data and the digitized audio;
6 process the incoming remote control data to produce content presentation codes;
7 process the content data based on the content presentation codes; and
8 process the digitized audio, wherein the digitized audio is representative of audio signals received
9 via a microphone of the external content display device.

Claims 35 – 37 (cancelled)

1 38. (currently amended) The device of claim 33, wherein the memory further comprises operational
2 instructions that cause the processing module to:

3 modulate display data to produce modulated display data; and

4 combine the content data and the modulated display data to produce transmit data that is provided

5 to the external content display device via the channel.

1 39. (original) The device of claim 38, wherein the memory further comprises operational instructions
2 that cause the processing module to modulate the display data by:

3 generating a pseudo random code; and

4 modulating the pseudo random code and the display data to produce the modulated display data.

1 40. (currently amended) The device of claim 38, wherein the memory further comprises operational
2 instructions that cause the processing module to modulate the display data by:

3 high pass filtering the transmit modulated display data to produce filtered data, wherein the

4 filtered data is provided on the channel; and

5 high frequency isolating the content data from the modulated display data by substantially

6 attenuating the filtered data and passing the content data substantially unattenuated unattenuated.

1 41. (currently amended) The device of claim 33, wherein the memory further comprises operational
2 instructions that cause the processing module to:

3 detecting capabilities of the external content display device in preparing ~~the data the retrieved~~

4 data.

Claims 42-46 (Cancelled)

Supplemental Response mailed May 29, 2008

Supplemental Reply to Final Office Action, mailed date December 12, 2007

1 47. (New) A device for processing content data, the device comprises:
2 data processing circuitry operably coupled to process data retrieved from an external content
3 display device, wherein the data processing circuitry produces presentation information from the retrieved
4 data, the retrieved data including at least one of audio data, video data, and incoming remote control data;
5 content processing module operably coupled to produce content data based on the presentation
6 information for presentation on the external content display device; and
7 transceiving module operably coupled to the data processing circuitry and to the content
8 processing module, wherein the transceiving module separates modulated data from the content data and
9 produces the received data from the modulated data provided by the external content display device, and
10 wherein the transceiving module introduces the content data into a channel coupling the device to the
11 external content display device, the transceiving module includes:
12 high pass filter to separate the content data from the modulated data;
13 gain module operably coupled to provide gain to the modulated data to produce gained
14 modulated data; and
15 data extraction circuit operably coupled to separate the retrieved data from the gain
16 modulated data, wherein the data extraction circuit includes:
17 demodulator operably coupled to receive the gain modulated data and to
18 produce therefrom demodulated data;
19 quantizer operably coupled to receive the demodulated data and to
20 produce therefrom quantized data; and
21 digital filter operably coupled to receive the quantized data and produce
22 therefrom the retrieved data.

1 48. (New) The device of claim 47, wherein the content data comprises at least one of: audio data,
2 video data, text data, and multimedia data.

1 49. (New) The device of claim 47, wherein the incoming remote control data comprises at least one
2 of: volume adjust data, stop data, play data, pause data, rewind data, fast forward data, next track data,
3 channel up/down data, bass boost data, record data, intensity data, contrast data, security access data, and
4 telephone access code data.

1 50. (New) The device of claim 47, wherein the data processing circuitry comprises:
2 parsing module operably coupled to receive the data, wherein the parsing module separates the
3 retrieved data into the incoming remote control data and the digitized audio;
4 remote control circuitry for process the remote control data to produce content presentation
5 information, wherein the remote control circuitry provides the content presentation information to the
6 content processing module, and wherein the content processing module processes the content data based
7 on the content presentation information; and
8 signal processing module operably coupled to process the digitized audio, wherein the digitized
9 audio is representative of audio signals received via a microphone of the external content display device.

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1 51. (New) The device of claim 47, wherein the data processing circuitry further comprises:
2 display information module operably coupled to provide outgoing display data to the transceiving
3 module.

1 52. (New) The device of claim 51, wherein the transceiving module further comprises:
2 data modulator operably coupled to modulate the outgoing display data to produce outgoing
3 modulated display data; and
4 combining circuit operably coupled to combine the content data and the outgoing modulated
5 display data to produce transmit data that is provided to the external content display device via the
6 channel.

1 53. (New) The device of claim 52, wherein the data modulator comprises:
2 pseudo random code generator operably coupled to produce a random code; and
3 modulator operably coupled to receive the random code and the outgoing display data to produce
4 the outgoing modulated display data.

1 54. (New) The device of claim 52, wherein the combining circuit comprises:
2 high pass filter operably coupled to the channel, wherein the high pass filter filters the outgoing
3 modulated display data to produce filtered data, wherein the filtered data is provided on the channel; and
4 high frequency isolation module operably coupled to the channel, wherein the high frequency
5 isolation module substantially attenuates the filtered data and passes the content data substantially
6 untenant such that the content data is isolated from the modulated display data.

- 1 55. (New) The device of claim 47 further comprises:
 - 2 an external content display device detection module operably coupled to detect capabilities of the
 - 3 external content display device in preparing the retrieved data.